Pape DIAWARA

Software Engineer

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Profiles	◯ capinho

Summary

Passionate Sofware engineer with a strong interest in computer science, specializing in Python, web technologies, AI, and machine learning. Enthusiastic about solving complex problems and designing efficient algorithms, with a focus on developing scalable solutions and optimizing code performance.

Programming

Skills and Expertise

- **Programming Languages**: Python , Java, C#
- **Frameworks and Tools**: Django,Pandas, Numpy, TensorFlow, React.js, Node.js, Next.js
- **Database Management**: PostgreSQL, SQL
- **DevOps**: Docker, CI/CD (GitHub Actions, GitLab)
- **Cloud Platforms**: AWS (RDS, Lambda, EC2, ECS, S3, CloudWatch)
- **API Development and Automation**: REST, Webhooks, Workflow Automation
- **Data Engineering**: Web scraping, Data pipelines, Automation

Education

EPITA - School of Engineering and Computer Science, PARIS   **2022 - 2024**
Computer Science   Computer Engineering Degree
Master
🔗 https://www.epita.fr/en/homepage/

Experience

SEGULA TECHNOLOGIE   **2022-11-29 -**
Software Engineer

- Led the development of a scalable **Web 3.0 marketplace** using **Next.js** and **microservices architecture** on **AWS**, managing over 25000 monthly transactions.
- Built a **data scraping pipeline** using **Python** and deployed on **AWS**, automating data collection and improving data quality, focus on reducing manual tasks and enhancing data accuracy.
- Integrated **Large Language Models (LLMs)** for automated data classification, processing over 30,000 records, reducing manual work by 40%.
- Enhanced system performance through **asynchronous task handling**, reducing response times and ensuring high availability for backend services on **AWS**.
- Designed and implemented advanced **semantic search algorithms** to improve data retrieval accuracy.

GAWL, Paris   **2022-09-01 - 2022-11-24**
Fullstack Software Engineer

- Developed and optimized an **IPTV subscriber management system** using **Django** and **PostgreSQL**, handling over 5,000 active subscribers and automating key processes, enhancing internal reporting and efficiency.
- Created real-time dashboards with **Pandas** and monitored system health via **AWS CloudWatch**, providing insights into subscriber data to support data-driven decisions.
- Maintained a **CI/CD pipeline**, enabling frequent and stable releases aligned with agile development practices.

Freelance   **2020 - 2022**
Freelance Developer

- Designed and developed websites for clients such as IAAS Senegal, BestBira Events, and Cabinet Audit 360, increasing online traffic and improving client satisfaction.
- Built a platform for the Safety Quality Environment Department with dynamic QR code generation, processing dozens of inspections monthly.
- Developed and maintained a website for Eiffage , improving user navigation, which led to a 10% increase in user engagement.

SEDIMA GROUP   **2017-11-01 - 2019-08-31**
Fullstack Engineer

- Built an internal **e-commerce platform** for staff orders, using **Django** and **PostgreSQL** for automated order and inventory management, reducing handling time and improving operational efficiency.
- Developed an **incident management platform**, leveraging automated workflows to streamline reporting and resolution, enhancing service quality.

Emc2 Group   **2017-07-03 - 2017-08-31**
Backend Software Engineer

- Developed a **Django-based platform** for alumni engagement, featuring **user authentication** and content management, boosting alumni engagement by 15%.
- Provided **testing, documentation, and user training**, ensuring a smooth platform launch and high user adoption rate.

Projects

Hand Gesture Recognition Project
Collaborated with the SEAL Research Team

- Developed a **real-time hand gesture recognition system** using **Python** and **TensorFlow**, achieving 95% accuracy in gesture classification.
- The system was used to control underwater robots in real-time, significantly reducing operational errors by 20% during field tests.